

[Cited Reference 4]

(TRANSLATION)

Japanese Patent Office

Official Laid - Open Patent Gazette

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(Kokai) No. Hei. 5 - 253441

Laid - Open Date: October 5, 1993

Application No. Hei. 4 - 55463

Application Date: March 13, 1992

Inventor: Kousuke Aratani (phonetic)

Applicant: K.K. Toshiba (phonetic)

Title of Invention: A deodorizing apparatus

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What Is Claimed:

[Claim 1] A deodorizing apparatus mountable at an optional location and equipped with an adsorbing agent for adsorbing smell, a heater and a catalyst for decomposing smell, characterized by being provided with

an air passage mounted such as to be stretchable in the upward and downward directions;

said adsorbing agent in the lower part of said heater in the inner part of said air passage and further

at least a part of said catalyst in the upper part of said adsorbing agent.

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Detailed Explanation of the Invention:

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Partial English translations of page 4:

[0024] Now, when the adsorbing action of the adsorbing agent 24 of the deodorizing member 20 becomes weak, a smell - decomposing operation is carried out for

decomposing the smell adsorbed into the adsorbing agent 24. To be more concrete, the motor 27 is switched off and in the state that the fan 26 is suspended, the heater 19 is switched on and by means of said heater 19, the catalyst 25 of the deodorizing member 20 is heated. At this time, the adsorbing agent 24 of the deodorizing member 20 is also heated and thus the smell is removed from said adsorbing agent 24.

[0025] And by the catalyst 25 which has been fully heated, the smell removed from the adsorbing agent 24 is decomposed. By this action, the adsorbing action of the adsorbing agent 24 returns to the original state and therefore, it becomes possible to remove the smell again by means of the adsorbing agent 24.

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In Figure 5, the heater 19, the catalyst 33 to replace the catalyst 25 of the deodorizing member 20, the adsorbing agent 34 to replace the adsorbing agent 24 of deodorizing member 20 and the fan device 21 are provided in the inner part of the cylinder body 30 in the order from the upper part down to the lower part. Said adsorbing agent 34 is constructed in the shape of a honeycomb and further is so arranged for the air to freely pass through the inner part thereof. Further the catalyst 33 is so arranged for the air to freely pass through the inner part thereof.

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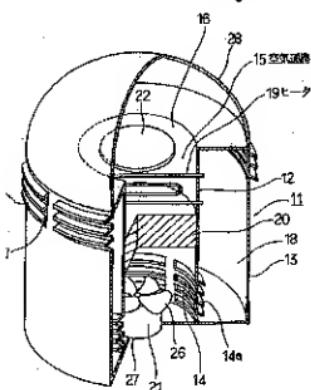
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Partial English translations of page 5, right lower column:

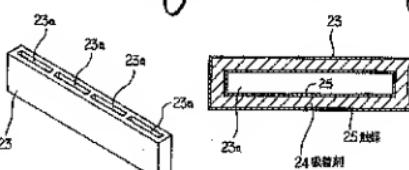
[Explanation of the Codes]

Code 11 stands for the apparatus body, code 12 stands for the inner cylinder, code 13 stands for the outer cylinder, code 15 stands for the air passage, code 16 stands for the flow - in inlet, code 17 stands for the flow - out outlet, code 18 stands for the folded passage, code 19 stands for the heater, code 20 stands for the deodorizing member, code 21 stands for the fan device, code 23 stands for the deodorizing body, code 24 stands for the adsorbing agent, code 25 stands for the catalyst, code 29 stands for the apparatus body, code 30 stands the cylinder, code 31 stands for the flow - in inlet, code 32 stands for the flow - out outlet, code 33 stands for the catalyst, code 34 stands for the adsorbing agent, code 35 stands for the heater, code 36 stands for the catalyst, code 37 stands for the air passage, code 38 stands for the cylinder, code 39 stands for the folded passage, and code 40 stands for the folded cylinder.

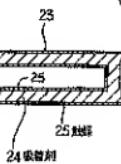
【図1】 Fig. 1



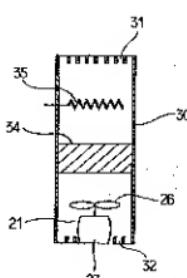
【図2】 Fig. 2



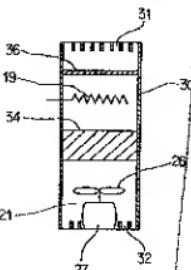
【図3】 Fig. 3



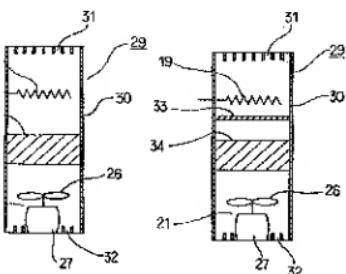
【図6】 Fig. 6



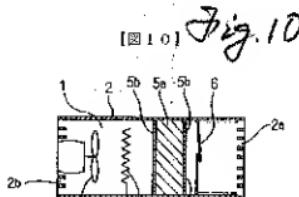
【図7】 Fig. 7



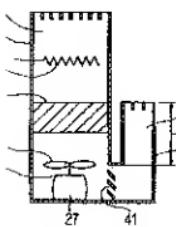
【図4】 Fig. 4



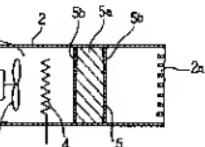
【図5】 Fig. 5



【図8】 Fig. 8



【図9】 Fig. 9



【図10】 Fig. 10

